

**IN THE CLAIMS:**

Please amend the claims as follows:

Subcl 7 2.(previously amended): The detection device according to claim 7, wherein the correlation value obtaining unit performs a despreading process by shifting a phase of the code, and the detection unit detects a phase of the code in a case where the correlation value is a maximum or greater than a reference value, as a despreading timing.

3.(previously amended): The detection device according to claim 7 wherein the correlation value obtaining unit includes a matched filter.

4.(previously amended): The detection device according to claim 7 wherein the correlation value obtaining unit includes a sliding correlator.

Bl const 5.(previously amended): The detection device according to claim 7 wherein the correlation value obtaining unit includes a matched filter to be used in a case where the length of code is short or part of the code is used, and a sliding correlator to be used in a case where the length of the code is long.

6.(previously amended): The detection device according to claim 2 wherein the correlation value obtaining unit includes a matched filter to be used in a case where the length of a code is short or part of the code is used, and a sliding correlator to be used in a case where the length of the code is long.

7. (currently amended): A detection device comprising:

- a storage unit storing a transmitted signal in a demodulator of a direct sequence CDMA signal;
- a code generation unit sequentially generating codes for a candidate for a despreading code;
- a correlation value obtaining unit reading the signal stored in the storage unit to be despread by the code; and
- a detection unit detecting the code from among candidate codes generated by the code generation unit, used for the despreading process as a spreading code on a transmission side, in a case where the correlation value obtained by the correlation value obtaining unit is a maximum or greater than a reference value,

wherein the detection device comprises an adder, a memory unit storing an output from the adder, and a feedback path feeding back an output from the memory unit to the adder, and the correlation values obtained by the correlation value obtaining unit are totaled for a plurality by symbols.

*B1  
Const*

8.(original): The detection device according to claim 7 wherein one memory is used as the storage means and the memory means.

9. (currently amended): A detection method of detecting a spreading code and a despreading timing in a demodulator of a direct sequence CDMA signal comprising:

- (a) storing a transmitted signal;
- (b) sequentially generating a code to be a candidate for a despreading code;

(c) reading the signal stored in the step (a) to be despread by the code; and  
(d) detecting the code from among candidate codes generated by the step (b), used for the desreading process as a spreading code on a transmission side, in a case where the correlation value obtained in the step (c) is a maximum or greater than a reference value,  
wherein the step (d) is executed an adder, a memory storing an output from the adder, and a feedback path feeding back an output from the memory to the adder and wherein the correlation values obtained the step (c) are totaled for a plurality of symbols.

10.(original): The detection method according to claim 9 wherein step (c) comprises a step of performing a disreading process by shifting a phase of the code, and step (d) comprises a step of detecting a phase of the code as a disreading code in a case where the correlation value is a maximum or greater than a reference value.

11.(original): The detection method according to claim 9 wherein step (d) comprises a step of totaling the correlation values obtained in step (c) for a plurality of symbols.

12. (currently amended): A detection device comprising:  
a storage unit storing a transmitted signal in spread spectrum communication;  
a code generation unit sequentially generating a code to be a candidate for a desreading code;  
a correlation value obtaining unit reading the signal stored in the storage unit to be despread by the code by shifting a phase of the code; and

B1  
Concl

a detection unit detecting the code from among candidate codes generated by the code generation unit as desreading code and a phase of the code used for the desreading process as a spreading code, in a case where the correlation value obtained by the correlation value obtaining unit is a maximum or greater than a reference value,

wherein the detection device comprises an adder, a memory storing an output from the adder, and a feedback path feeding back an output from the memory to the adder, and the correlation values obtained by the correlation value obtaining unit are totaled for a plurality of symbols.